

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMM United States Patent and Trademark Ource Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 8464 89190.146300/DP-302411 James R. Molnar 10/080,474 02/22/2002 **EXAMINER** 22851 7590 06/30/2004 BUI, THACH H DELPHI TECHNOLOGIES, INC. M/C 480-410-202 PAPER NUMBER ART UNIT PO BOX 5052 3752 TROY, MI 48007 DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		$\wedge \wedge \wedge$
	Application No.	Applicant(s)
Office Action Summary	10/080,474	MOLNAR, JAMES R.
	Examiner	Art Unit
	Thach H Bui	3752
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 		
Disposition of Claims		
 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) 20-23 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 		
Application Papers		
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	

Application/Control Number: 10/080,474

Art Unit: 3752

DETAILED ACTION

Election/Restrictions

Claims 20-23 are withdrawn from further consideration pursuant to 37 CFR
 1.142(b) as being drawn to a nonelected Group II. Election was made without traverse in the reply filed on February 24, 2004.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Luttrell et al.
 (U.S. Patent No. 6,409,102).

Luttrell et al. teach a fuel injector and/or an electric solenoid comprising a plurality of components formed of solenoid-quality stabilized ferritic stainless steel (col. 4, line 61-col. 5, line 2).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/080,474

Art Unit: 3752

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 2-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Luttrell et al. and Debold et al. (U.S. Patent No. 5,091,024) and further in view of Takahashi et al. (U.S. Patent No. 5,296,677).

Luttrell et al. have all the features of the invention (as mentioned above); Luttrell et al. do not teach a corrosion resistant, magnetic alloy article of which is related to a corrosion resistant, ferritic alloy and more particularly to such an alloy having a novel combination of magnetic and electrical properties and corrosion resistance. Debold et al. teach a corrosion resistant, magnetic alloy article of which is related to a corrosion resistant, ferritic alloy and more particularly to such an alloy having a novel combination of magnetic and electrical properties and corrosion resistance (see entire patent). The alloy includes sulfur, manganese and etc. to form a stabilized, free machining grade ferritic stainless steel. It would have been obvious to one skilled artisan in the art to have made the fuel injector of Luttrell et al. of a corrosion resistant, magnetic alloy of such as, ferritic alloy and more particularly to such an alloy having a novel combination of magnetic and electrical properties and corrosion resistance, as taught by Debold et al. in order to improve the performance of the fuel injector.

Luttrell et al. and Debold et al. combined have all the features of the invention but Luttrell et al. and Debold et al. failed to teach a method of welding a plurality of stainless steel components to form an injector body. Takahashi et al. teach a high energy density beam welding which gives rise to a weld zone free of such defects as cold/hot cracking

Application/Control Number: 10/080,474

Art Unit: 3752

and blowholes (see Fig. 1-5). It would have been obvious to one skilled artisan in the art at the time the invention was made to combine the teachings of Luttrell et al. and Debold et al. with Takahashi et al. by utilizing a welding method using a high energy density beam which gives rise to a weld zone free of such defects as cold/hot cracking and blowholes in a fuel injector.

Page 4

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thach H Bui whose telephone number is 703-305-0063. The examiner can normally be reached on Monday-Friday, 7:30-4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Mar can be reached on 703-308-2087. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T.B. 06/15/2004

MICHAEL MAR SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700